

# 2011 Consumer Confidence Report

Water System Name: Vasto Valle Farms

Report Date: 04/25/2012

*We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2011*

**Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.**

Type of water source(s) in use: Surface Water

Name & location of source(s): California Aqueduct via Westland Water District Lateral #29

Drinking Water Source Assessment information: The source is considered most vulnerable to the following activities

Not associated with any detected contaminants: Agricultural Drainage, Septic systems – low density [<1/acre], Wells-Agricultural / Irrigation. You may request a copy of the assessment summary or you may view a copy of the assessment at, Vasto Valle, 15900 West Dorris Ave., Huron, CA

Time and place of regularly scheduled board meetings for public participation: none

For more information, contact: Norman Goehring

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## **TERMS USED IN THIS REPORT:**

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

**Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

**Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

**Maximum Residual Disinfectant Level (MRDL):** The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

**Primary Drinking Water Standards (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Secondary Drinking Water Standards (SDWS):** MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**Regulatory Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Variances and Exemptions:** Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

**ND:** not detectable at testing limit

**ppm:** parts per million or milligrams per liter (mg/L)

**ppb:** parts per billion or micrograms per liter (ug/L)

**ppt:** parts per trillion or nanograms per liter (ng/L)

**pCi/L:** picocuries per liter (a measure of radiation)

**The sources of drinking water** (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

**Contaminants that may be present in source water include:**

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

**In order to ensure that tap water is safe to drink**, the USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

**Tables 1, 2, 3, 4, and 5 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent.** The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

**TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA**

Microbiological Contaminants (to be completed only if there was a detection of bacteria )	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

**TABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER**

Lead and Copper (to be completed only if there was a detection of lead or copper in the last sample set)	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
LEAD 07/21/10	5 NO	DETECTION	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
COPPER 07/21/10	5 NO	DETECTION	0	1.3	0.17	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detection s	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	06/10/10	36.1		none	none	Generally found in ground & surface water
Hardness (ppm)	06/09/11	82		none	none	Generally found in ground & surface water

\*Any violation of an MCL or AL is marked with an asterisk. Additional information regarding the violation is provided later in this report.

**TABLE 4 - DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
TURBIDITY (units)	06/10/10	20.0		TT	N/A	Soil runoff
GROSS ALPHA (pCi/L)	02/05/09	1.7		15	(0)	Erosion of natural deposits.
URANIUM (pCi/L)	02/05/09	1.8		20	0.43	Erosion of natural deposits
ALUMINUM (ppm)	06/09/11	0.06		1	0.6	Erosion of natural deposits; residue from some surface water treatment processes.
NITRATE (ppm)	06/09/11	2.6		45	45	Runoff and leaching from fertilizer use; leaching from septic tank and sewage; erosion of natural deposits.
RADIUM 228 (PCI/L)	12/08/08	0.23		5	0.019	Erosion of natural deposits

**TABLE 5 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
COLOR (units)	06/10/10	>25*		15	NONE	Naturally-occurring organic materials.
IRON (ppb)	06/10/10	1740*		300	NONE	Leaching from natural deposits; industrial wastes
MANGANESE (ppb)	06/10/10	167*		50	NONE	Leaching from natural deposits.
SULFATE (ppm)	06/10/10	46.7		500	NONE	Runoff/leaching from natural deposits; industrial wastes.
TURBIDITY (units)	06/10/10	20.0		5	NONE	Soil runoff
TOTAL DISSOLVED SOLIDS (TDS) (ppm)	06/10/10	230		1000	NONE	Runoff/leaching from natural deposits.
SPECIFIC CONDUCTANCE (uS/cm)	04/08/10 06/10/10	505	410- 600	1600	NONE	Substances that form ions when in water; seawater influence
CHLORIDE (ppm)	06/10/10	56.8		500	NONE	Runoff/leaching from natural deposits; seawater influence

ALUMINUM (ppb)	06/09/11	60		200	NONE	Erosion of natural deposits; residue from some surface water treatment processes
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TABLE 6 - DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Notification Level	Health Effects Language

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TABLE DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS AND DISINFECTION BYPRODUCT PRECURSORS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
TTHM (TOTAL TRIHALOMETHANES) (ppb)	03/28/11 06/09/11 09/15/11 11/09/11	103*	87 – 140	80	N/A	By-product of drinking water chlorination
HALOACETIC ACIDS (ppb)	03/28/11 06/09/11 09/15/11 11/09/11	58	49 – 69	60	N/A	Byproduct of drinking water disinfection
TOTAL ORGANIC CARBON (TOC) (ppm)	01/08/09	2.0		TT	N/A	

### Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

### Summary Information for Contaminants Exceeding an MCL, MRDL, or AL, or a Violation of Any Treatment Technique or Monitoring and Reporting Requirement

Trihalomethanes – TTHMs, Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and have an increased risk of getting cancer. Iron was found at levels that exceed the secondary MCL of 300 ug/L. There is no mandatory health effects Language for an exceedance of a secondary maximum contaminant level. Secondary standards are in place to establish an acceptable aesthetic quality of the water due to color, taste and odor. Iron there is no health effects language for iron- only the “typical source of contamination.” Leaching from natural deposits; industrial wastes.

### **For Systems Providing Surface Water as a Source Of Drinking Water:**

*(Refer to page 1, “Type of water source in use” to see if your source of water is surface water or groundwater)*

**TABLE 7 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES**

<i>Treatment Technique</i> <sup>(a)</sup> (Type of approved filtration technology used)	TREATMENT: A process of mixer, chemical feed, sedimentation, mixer, filtration, chlorination, and treated storage tank. Direct Filtration
Turbidity Performance Standards <sup>(b)</sup> (that must be met through the water treatment process)	<u>Turbidity of the filtered water must:</u> 1 – Be less than or equal to _0.3_ NTU in 95% of measurements in a month. 2 – Not exceed _1.0_ NTU for more than eight consecutive hours. 3 – Not exceed _1.0_ NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%
Highest single turbidity measurement during the year	0.100
Number of violations of any surface water treatment requirements	0

(a) A required process intended to reduce the level of a contaminant in drinking water.

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

\* Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided earlier in this report.

### **Summary Information for Surface Water Treatment**

The water treatment plant is providing potable water that is meeting the State of California Drinking Water Standards.